PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY REPORT ON PATENTAINFLITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference						
03PCT292-WDZ	FOR FURTHER AC	TION See Form PCT/IPEA/416				
International application No.	International filing date	e (day/month/year)	Priority date (day/month/year)			
PCT/CN03/00829 28. Sep 2003		3 (28.09.03)	23. Jan 2003(23.01.03)			
International Patent Classification (IPC) or national classification and IPC						
IPC 7 B25B 13/14						
Applicant						
LU, Hong						
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of 3 sheets, including this cover sheet.						
3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and to the	he International Bureau	u) a total of	sheets, as follows:			
			amended and are the basis of this report and/or			
Instructions).	ations authorized by th	is Authority (see R	Rule 70.16 and Section 607 of the Administrative			
sheets which supersede e	earlier sheets, but which	h this Authority co	nsiders contain an amendment that goes beyond			
the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. [] (sent to the International).	Bureau only) a total	of (indicate type	and number of electronic ,			
			form only, as indicated in the Supplemental Box			
Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
	Box No. I Basis of the report					
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
citations and explanations supporting such statement						
Dox Me. VI Certain documents cited						
	Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report				
23.Aug 2004 (23.08.04)			23.May 2005 (23.05.05)			
Name and mailing address of the IPEA/CN		Authorized office	11 26% 76% 11			
The State Intellectual Property Office, the P.R.China, 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China			ZHÄNGĽiquan [=]D ===			
100088	Donne, Onna					
Facsimile No. 86-10-62019451		Telephone No.	86-10-62085461			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN03/00829

Box	No.	I Basis	of the report						
1.			•						
••	With regard to the language, this report is based on: the international application in the language in which it was filed								
			the international application in the language in which it was filed						
			ion of the international application into,	which is the language of a					
	translation furnished for the purposes of:								
	international search (Rules 12.3(a) and 23.1(b))								
			ation of the international application (Rule 12.4(a))						
		∐interna	tional preliminary examination (Rules 55.2(a) and/or 55.3(a))						
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):									
	\boxtimes	the interna	tional application as originally filed/furnished						
		the descrip	otion:	•					
		pages		_ as originally filed/furnished					
		pages *	received by this Authority on						
		pages *	received by this Authority on						
	П	the claims:							
	ш	pages		on oniminally \$1,3/\$					
		pages *	on amanded (together v	as originally filed/furnished vith any statement)under Article 19					
		pages *	received by this Authority on	•					
		pages *	received by this Authority or						
		pages pages pages	received by this Authority on received by this Authority on	as originally filed/furnished					
		a sequence	listing and/or any related table(s) - see Supplemental Box Relating to Sequence	Listing.					
		-	, , , , , , , , , , , , , , , , , , , ,						
3.		The amend	nents have resulted in the cancellation of:						
		□ the	1						
			description, pages						
			frawings, sheets/figs						
			Sequence listing (anadiful)						
			table(s) related to sequence listing (specify):						
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).									
			description, pages	* * * * * * * * * * * * * * * * * * * *					
			claime Nos						
									
			sequence listing (specific):						
			table(s) related to sequence listing (specify):	· · · · · · · · · · · · · · · · · · ·					
4	· If		es, some or all of those sheets may be marked "superseded."						
		2.2							

International application No. PCT/CN03/00829

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement: Novelty (N) Claims 1-9 YES Claims None NO Inventive step (IS) YES Claims 2,6-8 Claims 1,3-5,9 NO Industrial applicability (IA) Claims YES Claims None NO

2. Citations and explanations (Rule 70.7)

The closest prior art is represented by document cited CN1227780A (D1).

The difference between said D1 and the art scheme claimed in claim 1 is that, a traction means connected with a shaft may make said shaft rotate, so that the second gear could drive the first gear, and cause said worm move inside said chamber. However, said difference has already been disclosed in CN2139873Y (D2, see Fig 1,2 and reference numbers 3,5,6,10,15). Therefore, it is obvious for skilled persons in the art, to combine the Document 2 on the basis of the Document 1, so as to achieve the art scheme claimed in claim 1, claim 1 does not satisfy the criteria set forth in PCT Art. 33(3), hence involving no inventiveness.

At the same time, the additional technical features of dependent claims 3-5,9 have also been disclosed in said D2. Hence, in the condition that the claim 1 they refer to does not possess inventiveness, claims 3-5,9 don't satisfy the criteria set forth in PCT Art. 33(3), hence involving no inventiveness.

Because the subject matter of claims 1-9 involve industrial applicability, claims 1-9 meet the requirements of PCT Art. 33(4), indeed.